

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049916 A2

(51) International Patent Classification⁷: **D21F**
(21) International Application Number:
PCT/US2004/037823
(22) International Filing Date:
12 November 2004 (12.11.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/520,739 17 November 2003 (17.11.2003) US

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): **ASTEN-JOHNSON, INC.** [US/US]; 4399 Corporate Road, P.O. Box 118001, Charleston, SC 24923-8001 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MCPHERSON, Douglas, R.** [US/US]; 4 Metacomet Drive, East Granby, CT 06026 (US).

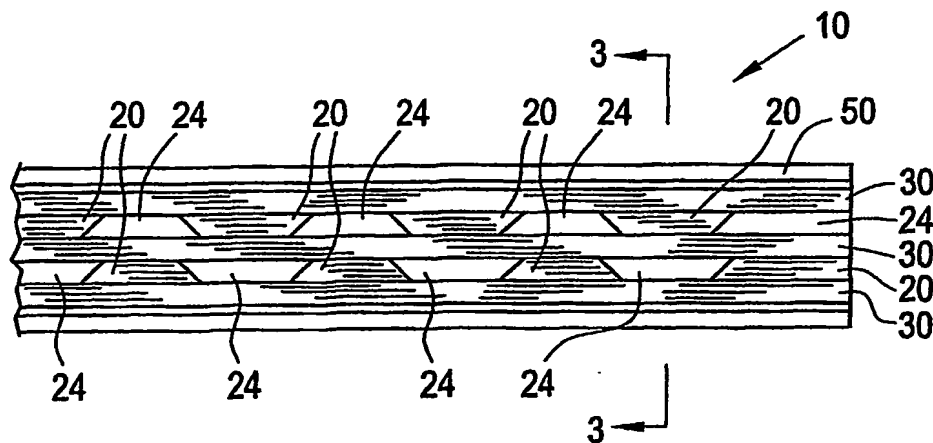
Published:

— without international search report and to be republished upon receipt of that report

(74) Agent: **HUIS, Randolph, J.**; Volpe and Koenig, P.C., United Plaza, Suite 1600, 30 South 17th Street, Philadelphia, PA 19103 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **HERRINGBONE TYPE VACUUM DEWATERING BOX COVER**



(57) Abstract: A cover for a vacuum dewatering box that is formed from a plurality of blocks, each including a wear surface, is provided. At least some of the blocks are spaced apart to form at least one generally longitudinally oriented slot through the cover, with a shape and size of the at least one slot being determined by at least one of a location of and a shape of the blocks. Preferably, the at least one slot is formed with a zig-zag or herringbone pattern, and can be used on a suction box or Uhle box on a papermaking machine. A vacuum dewatering box having this type of cover is also provided.